

Attachment chemistry

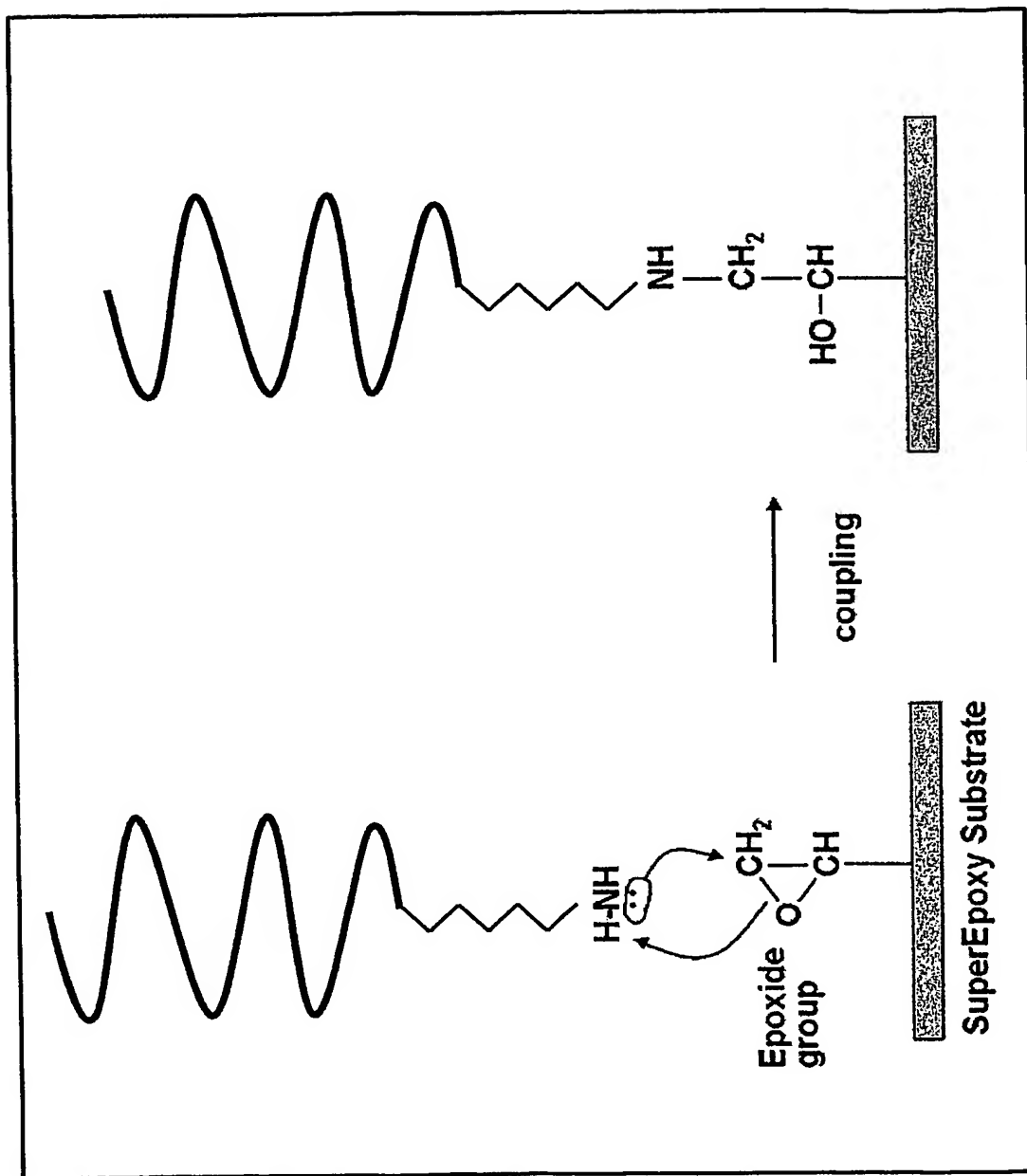
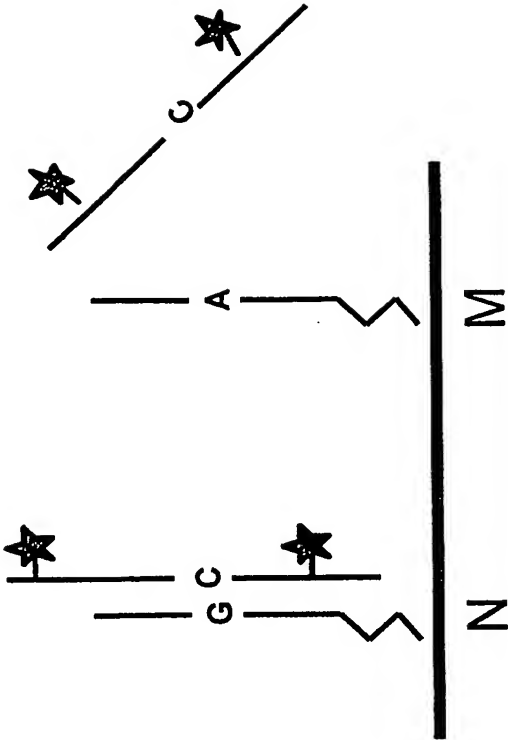


Figure 1

Microarray based genotyping



Allele specific
oligonucleotides (ASO)

Figure 2

Step 1: Genotyping of connexin 26 35ΔG and M34T mutations (i)

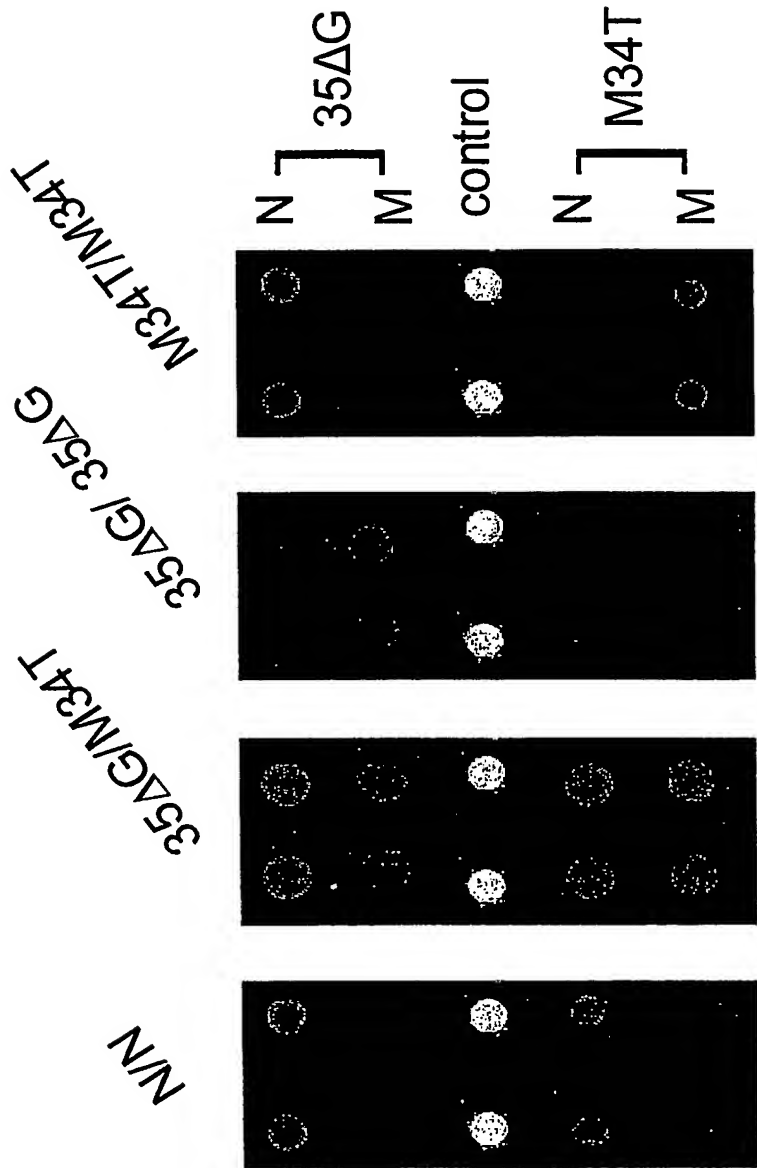


Figure 3

Step 1: Genotyping of connexin 26 35ΔG and M34T mutations (ii)

$$\text{Genotype Index (GI)} = \frac{SV_N}{(SV_N + SV_M)}$$

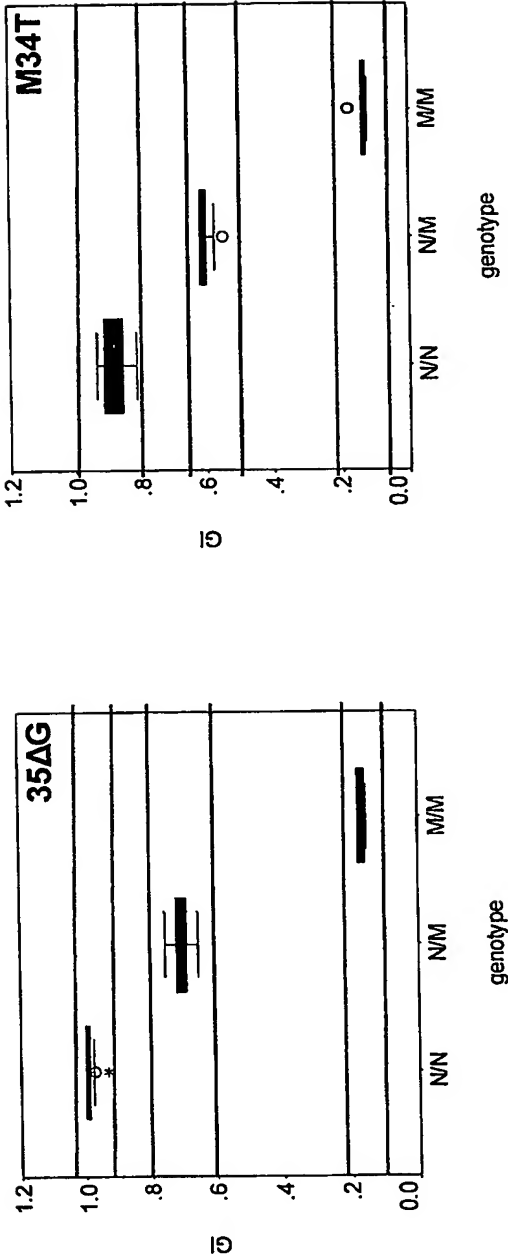


Figure 4

Step 2: Genotyping of connexin 26 mutations

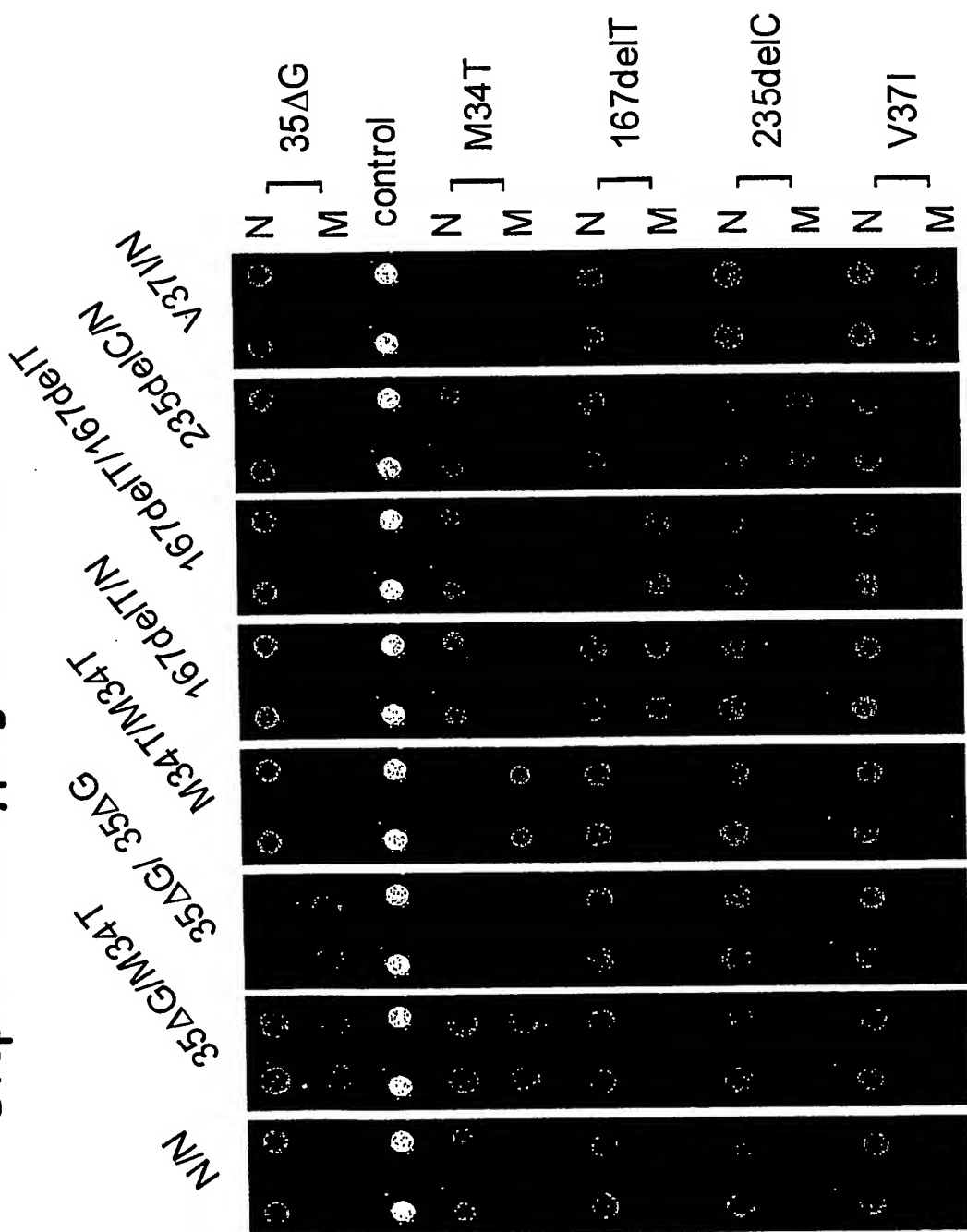


Figure 5

Step 2: Genotyping of pendrin and 12S rRNA mutations

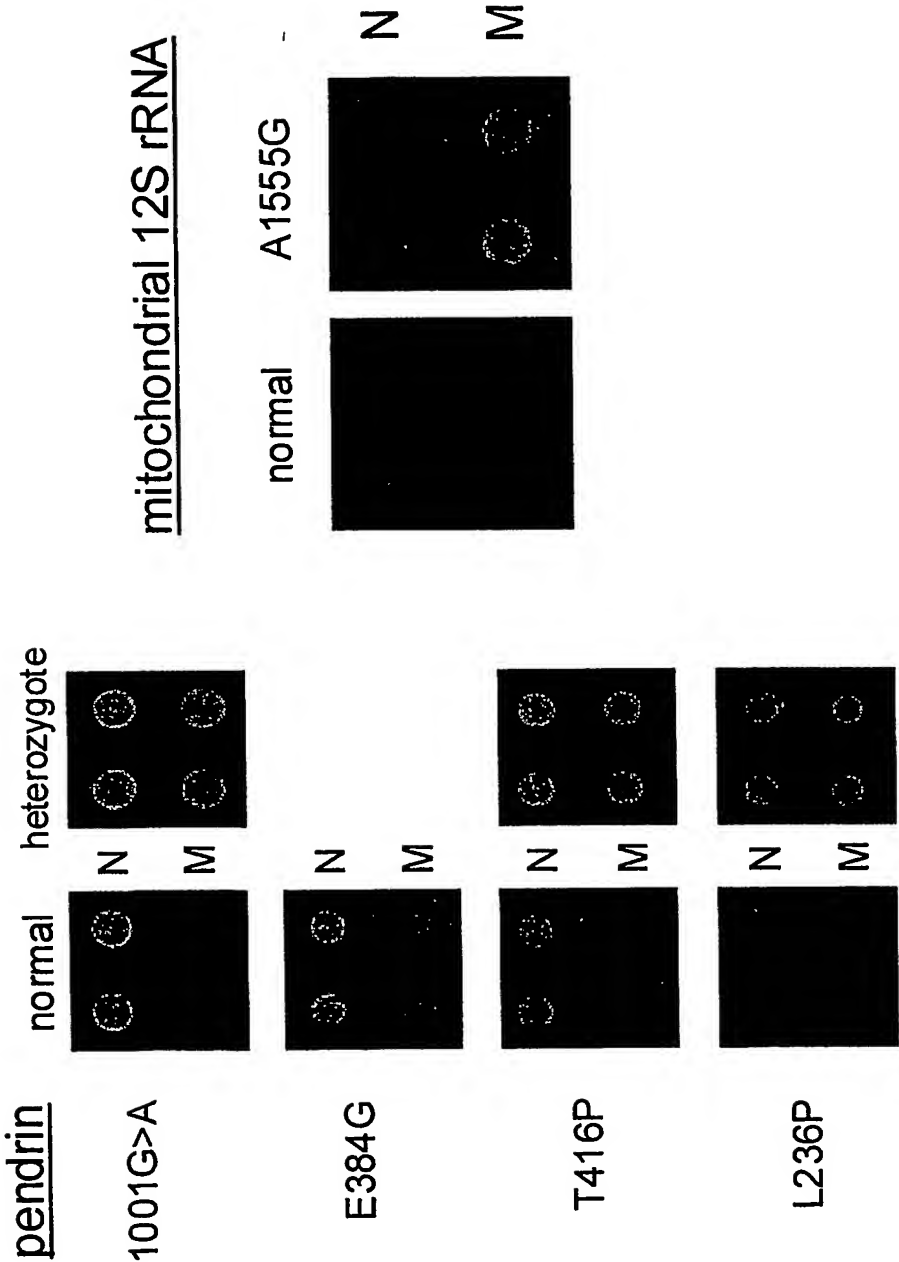


Figure 6

Genotyping
summary

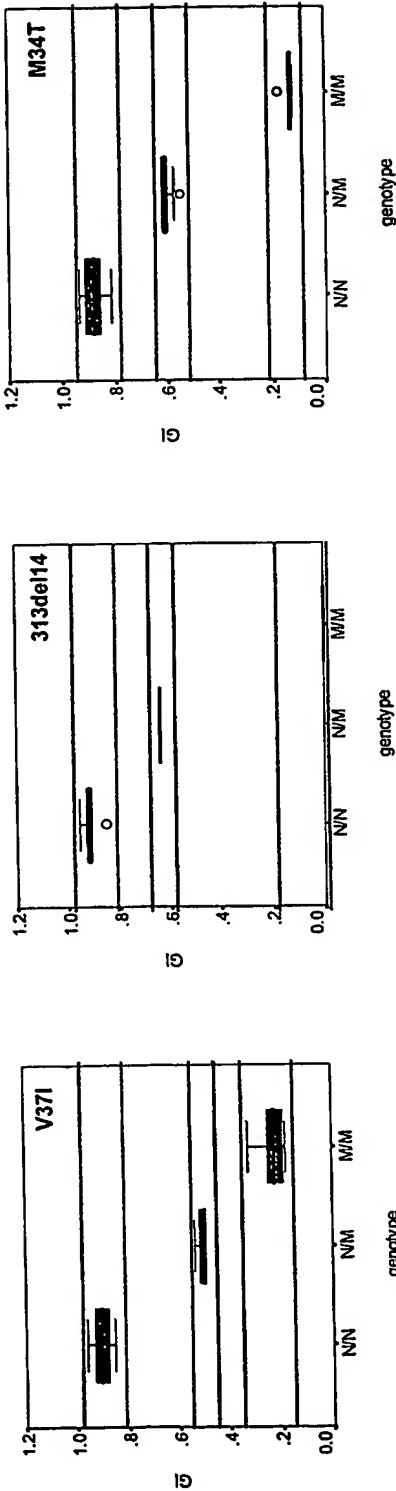


Figure 7A

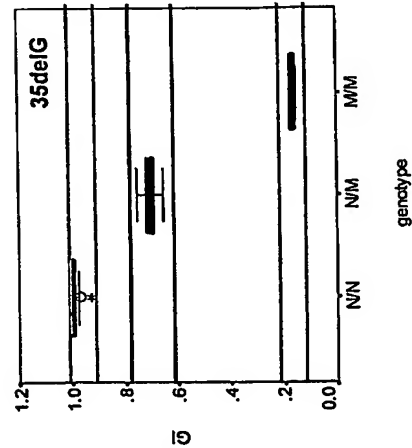


Figure 7B

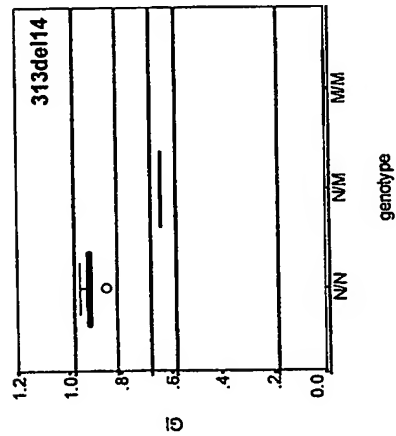


Figure 7C

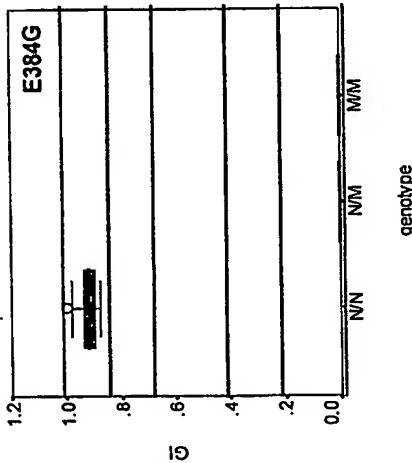


Figure 7D

Figure 7E

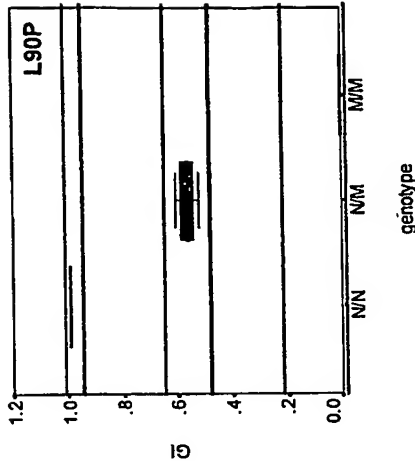


Figure 7F

Genotyping
summary

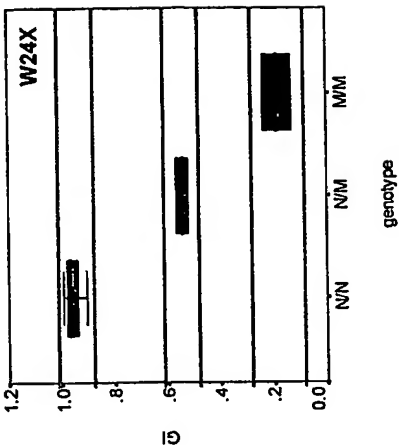


Figure 7G

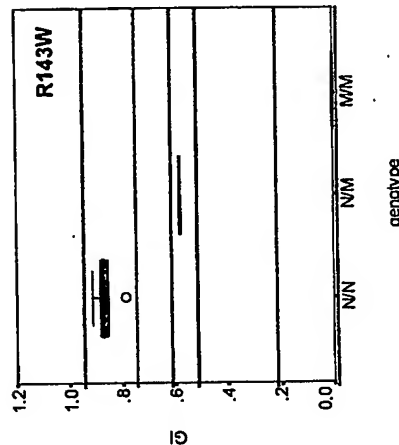


Figure 7H

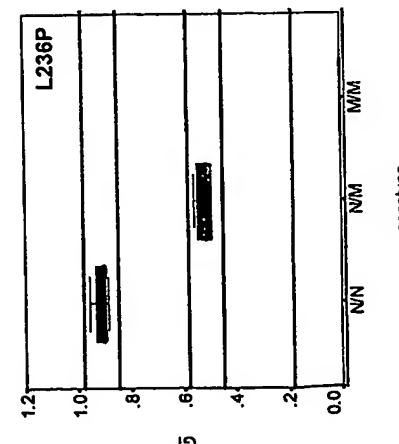


Figure 7I

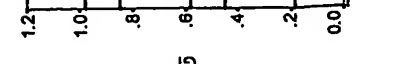


Figure 7J

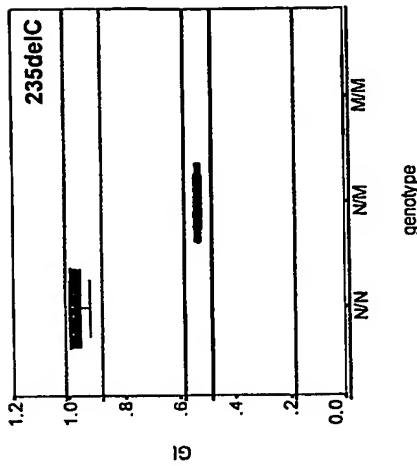


Figure 7K

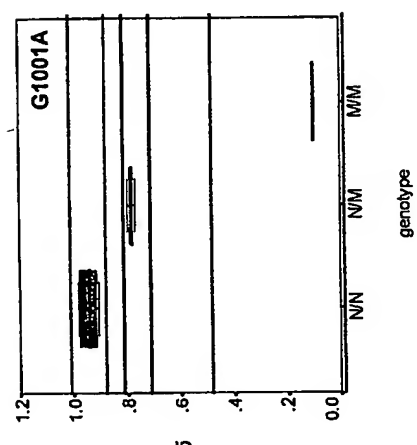


Figure 7L

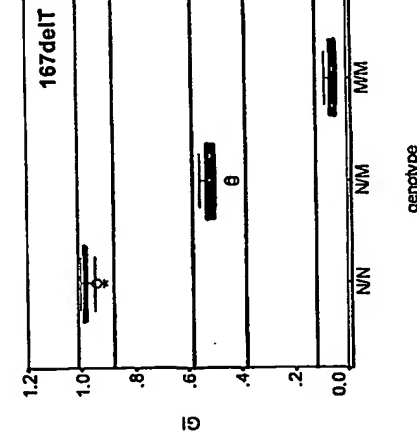


Figure 7M

Genotyping summary

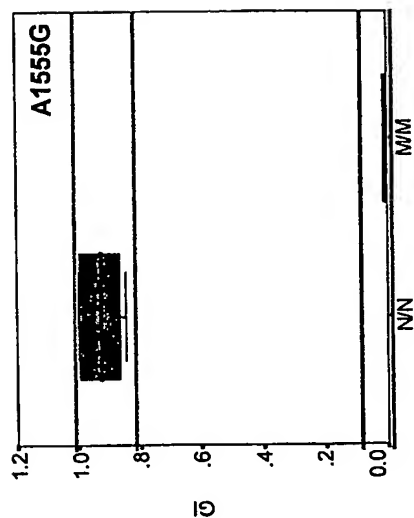


Figure 7M

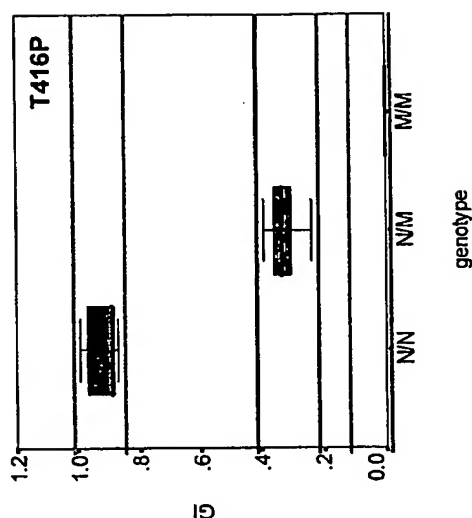


Figure 7N

Genotype calling algorithm

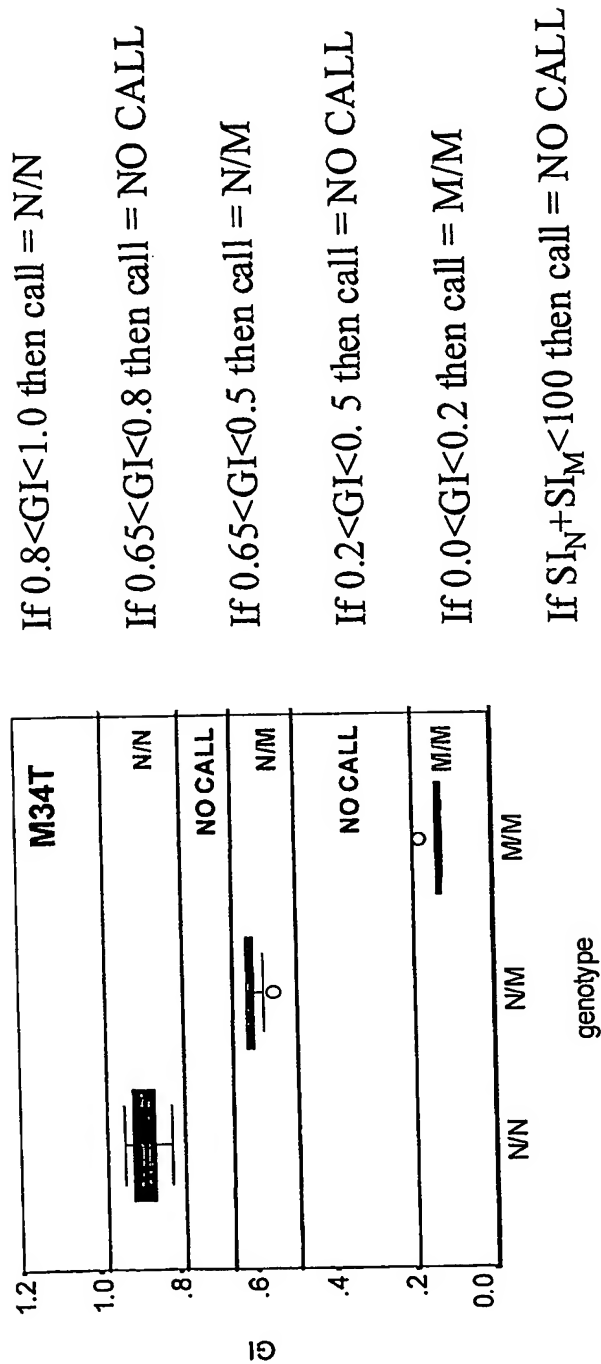
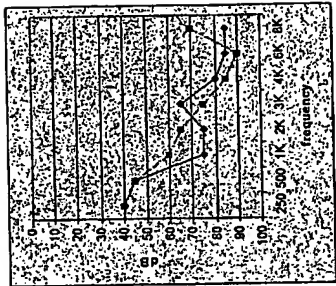


Figure 8

Interactions between deafness genes?

- severe hearing loss
- progressive
- age of onset 10 years



Mutation	GI	Call
connexin 26		
35delG	0.992806	N/N
W24X	0.93836	N/N
M34T	0.619185	N/M
V37I	0.902981	N/N
167delT	0.999151	N/N
235delC	0.997346	N/N
L90P	0.992122	N/N
R143W	0.862635	N/N
313del14	0.932165	N/N

Mutation	GI	Call
pendrin		
L236P	0.935414	N/N
G1001A	0.906897	N/N
E384G	0.941176	N/N
T416P	0.969543	N/N
12S rRNA		
A1555G	0.007764	M/M
usherin		
2299delG	0.995937	N/N

Figure 9